

FOLIO

GFC Approves Ethics in Human Research Guidelines

A policy on ethics in human research was put through the wringer by General Faculties Council on 28 January. It emerged intact but its proponents, members of the General Policy Committee on Human Research and some members of Council were a bit drained after the lengthy discussion. What Council endorsed (by a vote of 53 to 24) is a set of firm guidelines which underscore the fact that all proposed research involving human participants, whether conducted by staff or students, must be reviewed by an ethics review committee. This step is new as is an appeal step. Here, if the departmental review "yields a negative majority decision" the investigator cannot proceed with the research unless the bases for the opposition are resolved. "Such resolution should be attempted through discussion. If resolution cannot be achieved, the decision may be appealed to the General Policy Committee on Human Research whose decision is final."

Brendan Rule and Baha Abu-Laban, representing the committee, said the policy was developed with a view to streamlining some of the existing procedures in various Faculties and departments. Dr. Abu-Laban pointed out that the draft policy was distributed widely and that considerable feedback was received. Among those consulted was D.A. Cramp, President of the University of Alberta Hospitals.

"I think the report speaks for itself," Vice-President (Research) Kaplan told the assembly. Not everyone was in agreement, at least not right away. James Russell, Medicine, expressed fears that the policy could lead to misunderstandings where there must be none, and a colleague, Adrian Jones, felt that the statement that review committees should consist of at least four members of whom no less than two should be generally know-

ledgeable in the field of the particular research but not associated with the project under review is "too slim" for something that is University-wide.

Dr. Rule said that the guidelines should be interpreted not by themselves but in the context of the entire document. In the opinion of Vice-President Meekison, the entire document is the policy and will be included in the GFC Policy Manual.

It was emphasized that the guidelines (and they are regarded as guidelines and not definitive rules) are in no way contradictory to guidelines affecting research projects currently under review.

Preamble to the policy notes that researchers accept the principle that where serving the obligation to advance knowledge would involve measures inconsistent with the obligation to protect participants, the welfare of the participants must take precedence. "Where inconsistencies persist between meeting the obligation of good scientific inquiry and that of participant protection, formalized rules and regulations cannot be used to resolve the dilemma." The purpose of the University Policy Related to Ethics in Human Research, then, is to offer guidelines to assist in resolving dilemmas. Of course, application of the guidelines must not exclude consideration of specific professional guidelines set out by relevant professional associations.

The University guidelines are these. 1. If research procedures potentially produce physical or mental harm for the participant, the investigator must assess the magnitude and present justification for it to an appropriate ethics committee. Before approving the research, the committee must be satisfied that there is a reasonable expectation that the results will significantly increase understanding or will benefit human health and/or wel-

fare. As the magnitude of the potential risk increases, the benefits must disproportionately increase. (Safeguarding Participants)

2. Participants must give fully informed and voluntary consent to participation. (Safeguarding Participants)

3. Participants must be guaranteed anonymity and their responses treated with confidentiality. (Safeguarding Participants)

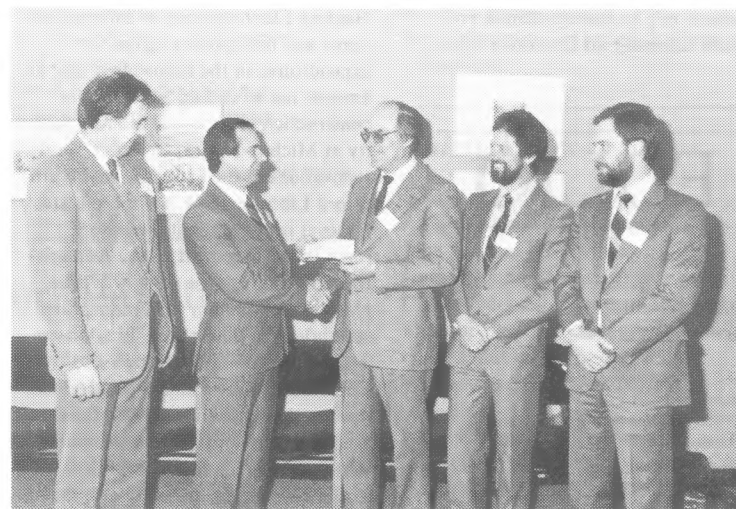
4. Prior to undertaking a research or instructional project, the investigator must be sufficiently knowledgeable about relevant literature, procedures,

risk and possible uses to which the results may be put in order to make responsible decisions. When in doubt about the application of the guidelines, the investigator is encouraged to consult with informed colleagues and supervisors. (Role of Investigator)

5. The investigator must insure that all individuals under his or her supervision have the training and competence needed to carry out their responsibilities. (Role of Investigator)

Under the motion approved by

Continued on page two



Tom Devereux (second from left), Manager, Agricultural Chemicals Development Group, and Roy Berg, Dean of the Faculty of Agriculture and Forestry (centre), did the honors at a recent luncheon at the Edmonton Club. Mr. Devereux turned over a cheque for \$10,000 on behalf of Imperial Oil Ltd. The donation will fund research into the use of ammonia in the preservation and improvement of nutritive value of barley silage. John Kennelly (second from right), Associate Professor of Plant Science, is the principal researcher. Dr. Kennelly will seek to determine the efficacy of ammonia as a preservative for barley silage and examine the effect of ammonia addition on the feeding value of the silage for cattle. Also shown are Bob Hardin (far left), Chairman of Animal Science, and Ken Jeffery, Senior Product Development Assistant, Agricultural Chemicals.

Council, the policy statement and guidelines take effect immediately, it being understood that the appropriate new committees to administer the policy be phased in as soon as possible but not later than June 1985. A review of the University Policy and Guidelines will begin no later than 1 July 1988.

(Deans' Council struck a committee to develop ethical guidelines for the conduct of research as well as for the structure and function of review committees. That committee's report was

issued in 1972. In 1983, a new committee was set up to examine the content and implementation of those original guidelines. The current guidelines are consistent with those established by the initial committee.)

Other Matters

Council received the Report of the Senate Lay Observers of the Admissions Process in Quota Faculties for

1984 and a motion to have the re-examination mark replace the original final exam mark with the revised final exam mark included in the computation of the grade point average was approved. This section will replace the current policy which states that supplemental marks will not be included in the computation of the GPA. Last April, GFC passed a motion which did away with supplemental examinations, starting in session 1985-86.

Annual reports submitted by the Facilities Development Committee, the Planning and Priorities Committee, and the Academic Development Committee were endorsed. Each report covered the year ending 31 December 1984.

Peter Wood, a graduate student in Secondary Education, was welcomed to Council by Chairman Horowitz. Mr. Wood will sit on GFC as statutory student member until 31 March 1985. □

Board Approves Fee Remission for Seniors

At its regular monthly meeting on 1 February, the Board of Governors approved the remission of fees for students aged 65 and over in both undergraduate and graduate programs. The waive of fees is subject to such students meeting the standard admission criteria for the programs.

The remission includes tuition, application for admission, University Athletic Board and Health Service and Students' Union fees. Previously, students over 65 were given free admission only to undergraduate programs following an Executive Com-

mittee interpretation of a 1973 Board recommendation. However, subsequent examination of the meeting minutes did not indicate how or why the Board interpreted the motion to mean only undergraduate programs and the current administration recommended the change.

The Governors also approved a Building Committee recommendation that an expenditure of not more than \$395,000 be spent for additional planning work for the expansion of the Heating Plant. Among its information items was the approval given for expenditures in the following areas: an amount not to exceed \$128,000 for construction of a central laundry facility at Michener Park; \$176,000 for renovations in the Cameron and Rutherdale Libraries; \$44,200 for asbestos removal in the computer machine room in the basement of the Administration Building (the work will take place in conjunction with renovations scheduled for this space). In addition, Tim Miner, Director, Design and Construction, presented a progress report on the renovations in the Earth Sciences Building and told the Board that drawings for the renovations would be completed shortly and that advertisements had been placed for general contractors and sub-trades.

The Educational Affairs Committee reported two information items including the receipt of an oral report from Vice-President (Academic) Meekison concerning the University's four Strategic Planning Groups. It is expected that all Groups will have completed their reports by the end of March 1985. The Governors were also told of the following Chairmen appointments: W.G. Dewhurst, Psychiatry, reap-

pointed for five years effective 1 July 1985; M.J. Hodgson, Geography, five year term effective 1 July 1985; G.D. Molnar, Medicine, reappointed for one year effective 1 July 1985; S.E. Wanke, Chemical Engineering, from 1 January 1985 to 30 June 1987; and H.T.G. Williams, Surgery, reappointed for one year effective 1 July

1985.

On a personal note, Chairman John Scholsser thanked retiring GFC member Ron Coutts for his contributions to the Board and for his "wise counsel". Dr. Horowitz added to Mr. Scholsser's comments by saying how important the link is between the Board and members of staff. □

Mayor to Address Senate Meeting

Mayor Lawrence Decore will discuss the city's Light Rail Transportation system at the 15 February meeting of Senate. The meeting will start at 9:30 a.m.; Mayor Decore is scheduled to speak at 10:30 a.m. and his talk will be accompanied by audio-visuals. Representatives from the University will also be in attendance to address the University's point of view. A question period will follow the Mayor's talk.

Other items on the agenda are the announcement of the Honorary Degree recipients at Spring Convocation, a discussion on increased University/Community interface and Peter Miller, Dean, Student Services, will present a report on his office's activities. The meeting will take place in the Council Chamber, University Hall. As per usual, it is an open affair. □

Computing Science Open House

Computer enthusiasts will have the opportunity to examine University computing facilities and gain some hands-on experience at the fourth annual Computing Science Open House, 23 February, 10 a.m. to 4 p.m. on the second and sixth floors of the General Services Building.

Computer graphics demonstrations will be offered, as well as discussions on the University's computing science program, hands-on programming tu-

torials, mainframe demonstration, computer hardware lab and micro-computer displays, computer-assisted instruction demonstrations, machine room tours and introductory and advanced tutorials on computing science topics.

The Open House is being sponsored by the University's Computing Society and the Departments of Computing Science and Computing Services. □

FOLIO

*Volume Twenty-one
Number Twenty-five*

*The Office of Community Relations
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
(403) 432-2325*

*All enquiries and correspondence should be directed to:
Ron Thomas
Editor*

*The Office of Community Relations
produces Folio on a regular basis for the
staff and other interested persons. Folio
contents may be reprinted with
acknowledgment.*

ISSN 0015-5764

Copyright 1984

Copyright 1985

Staff Members Honored for Long Service

A packed Papaschase Room at the Faculty Club was the venue for 50 staff members, their guests and colleagues last Tuesday, 29 January. The occasion was the annual ceremony hosted by the Board of Governors to recognize the dedication of teachers, researchers and support staff who have been members of the University family for 25 years and more. Following a reception in the Upstairs Lounge, the brief but significant ceremony commenced with a welcome from President Horowitz, who drew attention to the fact that those assembled represented well over 1,000 years of combined service to our University.

Members of the Board Educational Affairs Committee (BEAC—internal relations fall within the scope of this committee) introduced the honorees to the gathering and to John Schlosser, Board Chairman, for a formal expression of gratitude on behalf of the Board of Governors. Janet Bentley, BEAC Chairman, introduced the first group of 25-year honorees, being followed in turn by Frank Kozar, Jean Mucha and Jim Shinkaruk. D.R.B. (Sandy) McArthur introduced those 11 staff members who were honored for 30 years of service, and Chancellor Savaryn presented seven family members who have been with us for 35 years.

After the presentations had been made, the former Dean of Agriculture and Forestry, John Bowland, with 35 years to his credit, thanked the Board and the University generally not only for the ceremony but also for the many opportunities offered throughout the years to those being honored. Concluding remarks were made by President Horowitz.

The President again sincerely thanked all those present for their dedication to the University of Alberta. He drew particular note to the fact that those assembled were drawn from every walk of life within the University. While stressing the fundamental purposes of this institution, Dr. Horowitz expressed the University's appreciation for the dedication of all those who make this place work. He also singled out three people whose friendship and presence were significant factors leading to his being on campus today: A.S. (Bert) Knowler, Comptroller, for whom he worked

once as a "temporary, part-time, low level" assistant processing rather interesting travel claims; Joyce Kerr, whose claim to glory lies not only in the perfection of the cinammon bun but also in creating a lively environment for discussion and vital student/professor exchange in the Corbett Hall cafeteria; and L. Doyal Nelson of Elementary Education, whose selfless generosity enabled him to return to the University of Alberta.

Thus the ceremony came to a formal close. The special members of the University family, however, continued to talk and exchange experiences for some time after.

Twenty-Five Years

William Andrew—*Plant Science*
Jaap Jelle Bakker—*Civil Engineering*
Fraser W. Birss—*Chemistry*
Lottie Boelstler—*Library*
Michael Burke—*Physics*
Jack Chesterman—*Geography*
Donald Collinson—*Restorative Dentistry*
Carla Colter—*Romance Languages*
George Cumming—*Physics*
Katherine Davidson—*Dental Health Care*
W. Kenneth Dawson—*Physics*
John Elliott—*Physics*
William Fuller—*Zoology*



John Bowland, a 35 year member of the University family, accepts a mark of appreciation from Board Chairman John Schlosser, right.

Lars Holm—*Physics*
John Holmes—*Zoology*
Gerald Lorenz—*Physical Plant*
John McGregor—*Statistics and Applied Probability*
Joseph (Art) McKinnon—*Microbiology*
George Neilson—*Physics*
L. Doyal Nelson—*Elementary Education*
Steve Pawluk—*Soil Science*
Thomas Powrie—*Economics*
John Ritzel—*Physics*
Alison Scott-Prelorntzos—*Germanic*

Languages

Peter Smith—*Geography*
Brian Sproule—*Medicine*
Robert Stangeland—*Music*
Helmuth Sultanow—*Physical Plant*
Robert Swindlehurst—*Chemistry*
Istvan Ujvarosy—*Food Science*
Stuart Woods—*Physics*
Isao Yamamoto—*Applied Sciences in Medicine*

Thirty Years

George Ball—*Entomology*
Albert S. Knowler—*Comptroller*
John Kuspira—*Genetics*
Auron Levine—*Chemistry*
Charles Moore—*Romance Languages*
Theodor Shnitka—*Pathology*
Gordon Tucker—*Physical Plant*
William Vandervlugt—*Building Services*
Jacobus Verschuren—*Civil Engineering*
Harry Wohlfarth—*Extension*
Norman Yates—*Art and Design*

Thirty-Five Years

John Bowland—*Animal Science*
Duncan Campbell—*Extension*
John Allison Forbes—*Art and Design*
John Francis—*Animal Science*
Joyce Kerr—*Housing and Food Services*
Joseph Kuziemy—*Physics*
Anne Tory—*Office of the Registrar* □

Golden Donation for Faculté

Thanks to a generous donation of \$12,000 from Le Fonds Saint-Jean, the Faculté will begin awarding a gold medal on an annual basis to a graduating student.

Beginning this year, the Faculté will award the medal to a graduating student who "has shown the highest distinction in scholarship on a minimum of ten full courses or equivalent while registered at the institution and who is deemed to master the French language (reading, speaking and writing)."

The award, "La médaille d'or des Pères Oblats", is named in honor of the Oblate Fathers who originally owned the building which the Faculté now occupies. The order has main-

tained an active affiliation with the school and currently funds its evening and off campus program.

The donation was officially handed over on 31 January in a ceremony held at the Faculté. In attendance were Paul Poirier, representing Le Fonds Saint-Jean; Father Alfred Groleau, representing the Oblate Fathers; Louis Desrochers, President of the Faculté's Advisory Council; Lucie Douville, Chairperson, Committee on Communication and Development, (Advisory Council); Hélène Gendron, President of AUFSJ (Students' Association); Gamila Morcos, Dean; and Allan Holender, Director, Fund Development. □

Does Teaching Make A Difference? Henry Kreisel Arrives at Some Conclusions

Three men stand out in Henry Kreisel's memory as the teachers who made a difference to him. "The impact they had has lasted a lifetime," Dr. Kreisel told an attentive audience at an end-of-January seminar sponsored by CITL.

"But I had very many other highly respected professors as teachers, both in England and in Canada. Many of them I got a lot out of. Others gave brilliant lectures. So why should these three stand out?" the University Professor of Comparative Literature wondered.

There was Norman Endicott, Professor of English, little known because he published little; A.S.P. Woodhouse, perpetually working at a book on Milton that was never finished; and Barker Fairley, Goethe scholar, later painter and champion of the group of seven.

Dr. Kreisel described Endicott as "totally disorganized." Arriving at his lectures with an armful of books, he would search through them for passages he never could find. Talking rapidly, his mind moved so quickly from subject to subject that it was impossible for a student to take notes. "Finally," said Kreisel, "I was forced to get this course up for myself from encyclopaedias and histories of English literature."

But always he went back into Endicott's classroom "because there was something fascinating about the play of his mind."

Eventually, in his third and fourth years, having acquired a background, Kreisel was able to "make the kind of connection that Endicott's sparks initiated. He opened the door into a new world of discovery, a world in turmoil in which things were not fixed ideologically... One did not get an ordered, neat picture of the subject. One got sparks; and those sparks could ignite and inflame the imagination."

Woodhouse, however, was a very different personality. "He addressed us as if we were a public meeting," said Kreisel. "He had fully written out notes and he was marvellously organized—we came out loaded with knowledge and information." In a "stream of rhetorical statements" he constantly departed from his notes, for

he had "a marvellous capacity for thought...he was an example of a human being thinking."

Kreisel sees Woodhouse as a person fully in control of his material and devoted to scholarship as something that mattered.

First a professor and later an artist, Barker Fairley was quite unlike Endicott and Woodhouse. He looked at the text in minute detail, staying very close to it and becoming entirely absorbed in complicating the uncomplicated.

But it was Fairley, said Kreisel, who drew students into debate. Woodhouse did not because he thought students knew too little; Endicott was too disorganized to do so. "But Fairley allowed people to debate with him because he felt that students had something to say."

What was it, Kreisel wondered, that these three dissimilar figures had in common?

The first trait was a tremendous interest in their discipline. "They *professed* their discipline and they made you think that to study their subject was the most important thing in the world. They were *committed* to their discipline."

Kreisel sees this commitment as of the first importance. "You must put yourself at the service of your discipline; you must not use the discipline to display your knowledge; you must have the absolute conviction that your discipline matters to life, to the development of human beings."

As well, all three professors were conscientious. They never missed a class—it was their duty to be there. Papers were always returned—and with notes. And they always treated their students as adults, "assuming that we knew more than we did; and that if we didn't, we would learn it."

All three gave the impression that students counted; that it was important to initiate them into the discipline and show them its value—even if they were going on to something else.

"Professors must profess the discipline," said Kreisel. "Students do not have to do that...but they do have to see that the discipline is important."

"Ultimately then," Kreisel realised, "what these teachers did was to light a fire...and that is where teaching makes a difference...when the teacher moves out into the cosmos, away from simple, ascertainable fact, out into the area of pure thought."

Drawing on his own experience of how this can happen, Dr. Kreisel suggested that professors should accept students where they are—then help them to build up to where they ought to be. "In a discussion, let students test out what they are saying and see if it is a possible theory. Let them make mistakes and work things through." Students are in the class to have their minds opened, and students must do the work, not the professor.

When they leave the university, Kreisel believes students should in some way be better—and they should "have the sense that thought is central in the creation and development of a complete human being."

"There is a strange and mysterious interaction between the discipline, the professor and the student," he said, which may light a spark in students so that "they will go through the door into the world we hope to open up."

To ignite that spark, the professor must be able to retain, and renew, the spark in himself. This may not always be easy at a time when there is very little "injection into the university of new blood that can invigorate." But in good teachers there must always be a feeling that "it could be better," for only this "enables us to make anew."

"In the end," Dr. Kreisel concluded, "the aim of teaching is simply to light a fire. To be inspirational is the civilising mission, the essential function, of the professor and the university." □

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events

Lectures and Seminars

Comparative Literature

15 February, 3:15 p.m. Peter Schubert, "Effects of Literary Criticism The Czech Example" Senate Chamber, Arts Building.

Faculté Saint-Jean

Les 15 février de 19h30 à 21h00 et le 16 février de 09h00 à 16h00. Séminaire de formation des professeurs de langue seconde par Mme Camille Cousineau, salle 028, Faculté Saint-Jean, 8406 91e rue (468-1254).

Les 22 février de 19h00 à 22h00 et 23 février de 09h00 à 16h00. Séminaire "Sur la théorie et les techniques du lobbying public" par M. Clinton Archibald, politologue, Université d'Ottawa. Salle 150, Faculté Saint-Jean, 8406 91e rue (468-1254).

Les 22 février de 13h00 à 22h00 et 23 février de 09h00 à 16h30. Séminaire "Le Français dans le Secrétariat" par Mme Monique Rinfret, salle 030, Faculté Saint-Jean, 8406 91e rue (468-1254).

Extension

19 February, 9 a.m. Gerry Gall, "Egalitarianism and the Law." For further information, call 432-5052.

Economics of Environmental Protection

19 and 20 February, 9 a.m. The Alberta Chapter of the Canadian Society of Environmental Biologists' symposium on the relationship between economics and the environment. Keynote speaker: Garrett Hardin, scientist and author of *The Tragedy of the Commons*. Other speakers from Canada and U.S. For information, contact Brian Free, 427-5792. Special student rates. Banquet Room, Lister Hall.

Independent Schools

21 February, 7 p.m. Howard Dixon, Head, Queen Margaret's, Duncan, B.C., "North America Shifts Towards Independent Schools." To attend, advise B. Day, 425-4180 or 432-1950, before 18 February. Faculty Club.

Plant Science

11 February, 1 p.m. David C. Canvin, Faculty of Graduate Studies, Queen's University, "Salt and Sugar in Algae." 1-06 Agriculture-Forestry Centre.
13 February, 1 p.m. Evangeline Consolacion, "Photoregulation of Anthocyanin Synthesis." 1-06 Agriculture-Forestry Centre.

Soil Science

12 February, 12:30 p.m. D. Gower, "A Comparison of N and S Mineralization." 1-103 Tory Building.

Music

12 February, 2 p.m. Brenda Dalen, "Alban Berg's Chamber Concerto Op 15." 1-29 Fine Arts Building.

Sociology

13 February, noon. Rob Beamish, Queen's University, "Issues Concerning Marx's Research Techniques in the Preparation of *Das Kapital*." 5-15 Tory Building.

Applied Sciences in Medicine

13 February, 3 p.m. Chris Cann, Department of Radiology, University of California, San Francisco,

"Effect of Exercise on Bone Growth and Development." 10-115 Clinical Sciences Building

International Students

13 February, 7 p.m. John Eagle, "Historical View." One in a series of seminars on Canada. International Student Centre, 11023 90 Avenue.

Romance Languages

14 February, 4 p.m. P. Hjartarson, "The Death of an Author: An Inquiry." 5-20 Humanities Centre.

Art and Design

14 February, 5 p.m. Victor Chan, "Inspiration, Influence, Invention and Imitation: Some Observations on Goya's Iconographic Enigmas" 2-20 Fine Arts Building.

Entomology

14 February, 4 p.m. Stephen Aki Braimah, "Particle Capture Mechanisms and Fluid Mechanical Aspects of Suspension Feeding in Aquatic Insects." TBW-1 Tory Breezeway

Club IDC

15 February, 3 p.m. Kay Dier, "Primary Health Care in Malawi." 4-110C Education Building

Music

Department of Music

All events take place in Convocation Hall.

8 February, 8 p.m. Senior Student Recital—John Newman, clarinet.

10 February, 8 p.m. The University of Alberta Madrigal Singers—Leonard Ratzlaff, conductor. Tickets available at the Department of Music

14 February, 8 p.m. Senior Student Recital—Elizabeth Raycroft, mezzo-soprano.

16 February, 8 p.m. A Faculty Recital—Diane Nelsen, soprano; Ronald Nelsen, baritone; Alexandra Munn, piano.

Exhibitions

Ring House Gallery

Until 24 February. "Tetsuya Noda." An exhibition of Japanese prints.

Until 3 March. "Stone of Matera." A photographic study by Augusto Viggiano of an ancient dwelling site in Italy.

Films

Germanic Languages

13 February, 7:30 p.m. "Der Attentäter" (1969). Arts 17.

Radio and Television

Radio

All programs broadcast on CKUA radio 580 AM and 94.9 FM.

9 February, 7 p.m. University Concert Hall presents the St. Cecilia Orchestra. Guest: Malcolm Forsyth.

Television

All programs broadcast on Shaw-22 and QCTV-19.

13 February, 7:30 p.m. "Canada, The World and The Future: What is Life? What is Death?" Paul Rosenblatt, Professor of Family Social Science, University of Minnesota.

13 February, 8 p.m. "Vital Signs—Forensics: The Whole Story." (The field of forensic pathology is

comprised of toxicologists, odontologists and pathologists involved in finding and determining the cause of death for evidence in the judicial system.)

Theatre

SUB Theatre

Music

7 to 9 February, 8:15 p.m. U of A Mixed Chorus Spring Concert. Tickets available from members or call Kathy Bednar at 434-7521.

Films

15 February, 8 p.m. "Against All Odds" (1984).

16 February, 8 p.m. "The Woman in Red" (1984).

Non-Credit Courses

Computing Services

MTS (Michigan Terminal System)

MTS and Editor Fundamentals (Prerequisite)
AJ510 Operation and Visual Editing (Prerequisite)
MTS Overview (Prerequisite)

TEXTFORM

Introduction to Text Formatting (Prerequisite)

SPIRES

Introduction to SPIRES (Prerequisite)
Advanced SPIRES

Graphics

Integrated Graphics Overview (IG)

Statistics

Data Preparation for Statistical Packages (Prerequisite)

Introduction to SPSSx
SPSSx Conversion
Introduction to BMDP
Introduction to MIDAS
Introduction to MINITAB
Introduction to TROLL

Microcomputers

Introduction to the IBM PC
Introduction to the Personal Editor
Introduction to MultiMate
Advanced MultiMate

The above courses are offered regularly through the day with limited evening selections. Registration will be taken over the phone for all courses except evening courses. These may be made in person at 352 General Services Building, or by mail. Payment must accompany registration for all evening courses. Please make cheques payable to the University of Alberta.

Waiting List Courses

The following courses are only offered when a sufficient number of people express an interest.

Advanced Text Formatting
Courier Operation and Visual Editing
Introduction to Plotting
Introduction to Programming
Introduction to Typesetting
Introduction to APL
Introduction to the Array Processor
Introduction to APAL
Introduction to Clustan
Introduction to TSP
Introduction to Osiris
Introduction to Tell-A-Graf

For more information on any of the courses listed above, telephone the Training Coordinator at 432-2511, between 8 a.m. and 4 p.m., weekdays.

Faculty of Extension

Certificate Programmes

For further information on the programmes listed below, telephone 432-5545 or 432-3027 between 8:30 a.m. and 4:30 p.m., Monday to Friday
Management Development
Personnel Administration
Computers and Business Data Processing
Industrial Security Management
Purchasing Management Development
Applied Land Use Planning Certificate Programme
Public Administration Certificate (432-5052)

Citation Programme

For further information on the following programmes, telephone the number listed behind the course.
Executive Development Programme for Women (432-5545 or 432-3027)
Supervisory Development Programme (432-5066)

Land Use Planning Studies

For further information on the courses listed below, telephone 432-2912
Regional Planning
Plans and Processes
Survey and Analysis (Field Trip)

Industrial Courses

For further information on the courses listed below, telephone 432-2912.
Corrosion Control in Steam Systems
Maintenance Management

PLATO Learning Centre

'Computer-Taught' courses can be taken at your convenience. For further information on this unique way of learning, telephone 432-2444.
Introduction—Keyboarding, Word Processing
Excellence in Administrative Assistant/Secretarial Work
Introduction—Computers, Data Processing
Introduction to Programming—BASIC, PASCAL, FORTRAN
Time—Resource, Financial or Planning Management

Business and Professional

For further information on the courses listed below, call 432-5066. All University employees are eligible for a 25 percent discount on any courses/seminars listed under this section.
Short Course on the Income Tax Act
Assertive Management for Women
Office Automation: Where It's At and Where It's Going
Management of Personal Finances: An Investment Strategies Approach
Effective Speaking for Business and Professional People

Real Estate

For further information on the Winter/Spring course offerings, telephone 432-5060
Practical Apartment Caretaking
Home Renovation and Refurbishing
Real Estate in Distress
Property Management for Apartment Caretakers

Occupational Safety

For further information on courses listed below,

telephone 432-3037 or 432-5038.
Explosions
Management of Safety

Applied Behavioral Sciences Division

For further information on courses listed below, telephone 432-5069.
The Manager and Leadership
Effective Communication and Helping Skills for Volunteers Working with Adults
Introduction to Supervision
Coping With Loss

Faculté Saint-Jean

For further information on the programs listed below, telephone 468-1254, ext. 260 between 8:30 a.m. and 4:30 p.m., Monday to Friday
Appréciation du théâtre
Automobile—Ce Mystère
Auto—défense
Camp Jeunesse (Ordinateur et ses mystères)
Communication orale
Dessin pour débutants
Enseigner aux sourdoyés
Français pour Francophones I
Initiation à la communication écrite et orale
La pré-retraite
Le français dans le secrétariat
Parlons anglais (après-midi)
Parlons français (soir)
Personnalité et Relations Humaines "Qui suis-je?"
Séminaire de formation des professeurs de langue seconde
Séminaire "Atelier sur la Théorie et les techniques du lobbying public"
Tenue de livres
Utiliser un ordinateur sans programmer

Courses for Anglophones

French for Professionals
One-Day Intensive French Courses
Parlons français (afternoon)
Parlons français (evening)

Devonian Botanic Garden

For a detailed brochure and registration form, telephone 987-3054.
Introductory Orchid Growing
Herbs for Northern Gardens
Ski the DBG I
Oriental Flower Painting
Wheat Weaving

Notices

Campus Reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews (PACCR), the *Department of Materials Management* is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee. In preparation for this second phase, PACCR invites written comment prior to 6 March 1985.

Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee. Submissions should be sent to: Mrs. L. Pearson, PACCR Office, W4-13 Chemistry Building, Attention: The Materials Management Unit Review Committee.

Denys Noden to Retire

Denys Noden, Assistant Librarian - Technical Services, is retiring from the University at the end of March 1985 after more than 30 years with the Library.

A reception to honor Mr. Noden will be held in the Upper Lounge of the Faculty Club on Wednesday, 27 March, from 3 to 5:30 p.m. All of his friends and colleagues are invited to attend.

Anyone wishing to contribute toward a retirement gift should send a cheque made out to "Denys Noden Retirement Fund" to Mrs. S. Meyer, 5-02 Cameron Library.

Italian Coffee Hour

Practice your Italian from 12:30 to 2 p.m. on Fridays in Arts 405. Coffee will be served. Everyone welcome.

Surplus Equipment

The equipment appearing in this column is available only to University Departments with University administered funds. For further information about the purchase of equipment or the disposal of your department's surplus equipment, contact Jody Brookwell or Roy Bennett, 432-3208.

For Sale: (1) Barnstead Steam Sterilizer For more information, telephone Don Paradis, 432-3236, or Steve Ujvarosy, 432-3634, Department of Food Science.

Scholarships, Fellowships and Awards

External Research Studentship

Donor: Sidney Sussex College. **Where tenable:** Sidney Sussex College. **Level:** Graduate. **Field:** Unrestricted. **Value:** Student without other income—at least L2,500 per year. Student with other income—at least L200. Help may also be given toward field work and other essential research expenses. **Number:** Unspecified. **Duration:** Tenable for one year, but may be renewed annually up to three years. **Conditions:** Should normally be under age 25 on 1 December 1985; entering PhD program; elected students required to come into residence as a member of the College in October 1985. **Closing date:** 1 March 1985. **Further information and application forms should be requested from:** Applications for acceptance by Board: Board of Graduate Studies, 4 Mill Lane, Cambridge CB2 1R2. Application for Studentship: Tutor for Graduate Students, Sidney Sussex College, Cambridge CB2 3HU.

Evan Lewis-Thomas Law Studentships and Scholarships

Donor: The late Judge Evan Lewis-Thomas. **Where tenable:** Sidney Sussex College. **Level:** Graduate. **Field:** Law. **Value:** Minimum of L200 per annum; subject to scholar's income from other sources.

Number: Unspecified. **Duration:** Tenable for one year, but may be renewed annually up to three years. **Conditions:** Candidates must be entering the PhD or the MLitt Degree, the Diploma in Legal Studies, the Diploma in International Law, the LLM Degree, or MPhil Degree (one year course) in Criminology; must, in most cases, be 25 years of age or younger on 1 December 1985; elected students required to come into residence as a member of the College in October 1985. **Closing date:** 1 March 1985. **Further information and application forms should be requested from:** Application for acceptance by Board: Board of Graduate Studies, 4 Mill Lane, Cambridge CB2 1R2. Application for Studentships and Scholarships: Tutor for Graduate Students, Sidney Sussex College, Cambridge CB2 3HU.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Sollicite des candidatures de Bibliothécaire et Bibliotechnicien (NE)

Projet: L'établissement et la conservation d'une collection spéciale.

Durée du projet: 6 mois.

Buts du projet:

- Organiser une collection d'environ 10,000 volumes de façon à permettre la consultation et le dépouillement des documents selon les politiques établies et en consultation avec les professeurs de la Faculté Saint-Jean.

ablies et en consultation avec les professeurs de la Faculté Saint-Jean.

- Inventorier la collection (informations bibliographiques préliminaires): état et, dans la mesure du possible, valeur de chacune des pièces.

- Elaboration des procédures et politiques en ce qui a trait à la conservation, le classement et le catalogage des documents.

- Faire des recherches sur les sciences et les techniques d'archives pour la préparation des documents et appliquer ces techniques.

- Préparer un guide général des documents retenus pour la collection spéciale.

Entrée en fonction: Aussitôt que possible (au plus tard 1er mai 1985).

Qualifications

- Bonne connaissance parlée et écrite des langues française et anglaise.

- Connaissance des sciences et des techniques d'archives constituera un atout.

- Sens de l'initiative et de l'organisation.

- **Bibliothécaire:** grade universitaire en bibliothéconomie; bonne connaissance des règles de catalogage RCAA II et du système de classification L.C.

- **Bibliotechnicien(ne):** diplôme de technicien(ne) en documentation.

Traitement (Contrat de 6 mois).

- **Bibliothécaire:** \$2,002.50 par mois.

- **Bibliotechnicien:** \$1,261 par mois.

Date de clôture: le 15 février 1985.

Faire parvenir curriculum vitae, relevés de notes et les noms de trois répondants à: Juliette J. Henley, Bibliothèque—Faculté Saint-Jean, 8406 91e rue, Edmonton, Alberta T6C 4G9. Tél: (403) 468-1254, poste 249.

WEST CORNER OF UNIVERSITY OF ALBERTA

CAMPUS • EAST OFF 116 STREET • NEAR SASKATCHEWAN

RING HOUSE GALLERY • NORTH

432-5834 • COME & FIND US.

DRIVE • WE'RE EASY TO FIND • REALLY

Staff Fitness and Lifestyle Program

Now Registering

Early Morning Classes

0645
Keep Fit
Aerobic Dance

Noon Classes

1210
—Aquacise
—Iyengar Yoga
—Keep Fit
—Aerobic Exercise Beginner, Intermediate Advanced
—Aerobic Dance Beginner, Intermediate
—Tai Chi
—Relaxation & Stretching
—Ice Skating Instruction for Beginners and Skaters
Mon. or Fri.

Post Work Classes

1645
—Aerobic Dance
—Aerobic Exercise
—Keep Fit

Late Afterwork

1730
—Aerobic Dance

Just getting started—We have just the group for you.

Call Campus Recreation 432-5607

Physical Fitness: The best investment you will ever make.

Non-Academic Positions

A hiring freeze was put in place 21 November 1984. This affects all Non-Academic vacancies previously advertised with the exception of positions funded from Trust/Research accounts and temporary positions.

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 1 February 1985. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR. Positions available as of 1 February 1985.

Clerk Steno III (Part-Time/Trust) (\$647-\$813)

Biochemistry

Laboratory Assistant II (\$1,161-\$1,442) Provincial Laboratory of Public Health

Clerk Typist II (\$1,161-\$1,442) Provincial Laboratory of Public Health

Clerk Typist III (\$1,294-\$1,625) Faculté Saint-Jean

Medical Stenographer (Term to 31 March 1985) (\$1,442-\$1,842) Medicine

Technician I (Trust/Term) (\$1,497-\$1,920) Medicine

Biology Technologist I (Trust) (\$1,697-\$2,182) Zoology

Biochemistry Technologist I (Trust) (\$1,697-\$2,182) Cancer Research Group

Technician II (Trust/Term) (\$1,697-\$2,182) Medicine

Laboratory Technologist I (\$1,842-\$2,378) Provincial Laboratory of Public Health

Chemical Technologist II/III (Trust) (\$1,697-\$2,834) Foods and Nutrition

Electronics Technician III (Term to 31 March 1985) (\$2,003-\$2,596) Mineral Engineering Laboratory Technologist II (\$2,003-\$2,596) Provincial Laboratory of Public Health

For vacant library positions, please contact the Library Personnel Office, Basement, Cameron Library, telephone 432-3339.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Accommodations available

Private sale - Parkdale. Attractive, three-bedroom bungalow. Hardwood floors. Fireplace. Brick patio. Landscaped garden. Appliances. New cedar shingle roof. Finished basement. \$76,000. 439-5318. Leave message.

Rent - By day or week. Mountain chalet, just outside Jasper Park gate. Fully furnished. Ideal for up to six persons. Reasonable. 435-6504.

For quick sale - \$59,000. Easy access University. Sparkling bungalow, hardwood floors, spacious kitchen. Revenue suite down, two fridges, two stoves, all drapes. Call Joyce Byrne, 435-6064, 436-5250. Spencer's.

Sale - Classic, two-storey. Riverbend, formal dining room, five bedrooms plus den. 2,800 sq. ft. Lots of custom extras. \$219,000, offers? Call Joyce Byrne, 435-6064, 436-5250. Spencer's.

Sale - Luxury, one or two-bedroom condominiums Riverbend and University area. Super amenities: pool, saunas, parking, etc. Pat von Borstel, 437-6540, 436-5250. Spencer's.

Sale - Pleasantview. New listing. Super quiet, crescent location with southfacing backyard. Immaculate, tastefully decorated bungalow. Front drive garage. Tall trees. Pat von Borstel, 437-6540, 436-5250. Spencer's.

Share - Luxurious, furnished townhouse, with easygoing, responsible person \$300. 436-2950.

Rent - Large, bright, two-bedroom, basement suite in well-maintained house. Very quiet.

Reasonable. Bonnie Doon. Two direct buslines to University. 468-3302 evenings.

Accommodations wanted

House wanted for private purchase in University area. Three bedrooms necessary. Terms and occupancy are flexible for right house and price. 433-5502.

If you need a dependable person to house-sit for you during your study leave, phone Jim Choles, 427-7044 (days), 433-0855 (evenings).

Goods for sale

Paintings, other art: Gissing, Murray MacDonald, other Canadian artists. Japanese stencils, Chinese embroideries. Phone 433-2932.

Camera, Konica T4, 1.8 lens, power winder, cases, excellent shape, \$225. 432-5093. 9-4 p.m.

Certified, \$500 value, woman's gold/diamonds ring. Contemporary styling. \$200. 431-0172 evenings.

Books bought and sold - The Edmonton Book Store in HUB Mall will pay cash for book collections and individual, rare items. Appraisals available. Open seven days a week. 433-1781.

TRAVEL CUTS CORPORATE SERVICES

TRAVEL CUTS is fully appointed to make reservations for airlines, car rentals, hotels and tours — both international and domestic. We are fully computerized and our staff is knowledgeable about all aspects of travel. We offer you:

- a separate office with full-time staff working only on faculty travel
- convenient on-campus location
- a company with 15 years in the travel industry
- support of 14 Canadian offices and one in London, England.

Canadian Universities
Travel Service Ltd
Main Floor, SUB 432-2756



A U C T I O N UNIVERSITY OF ALBERTA 6

EDMONTON PUBLIC SCHOOL BOARD

14608 - 115 Avenue

Sale: February 23rd - 9:00 a.m.

Previewing: February 22nd - 4:00 p.m.

Partial Listing

IBM Typewriters, Mag Card Typewriter, Stage Light Dimmer Control, Automotives supplies, Postage scale, wooden bookshelves, computers, curtains, calculators, blackboards, tape recorders, beauty culture chairs, hair dryers, stoves, tables, chairs, industrial art equipment, overhead projector, drafting equipment, sewing machines, real to reel tape recorders, and much, much, more

SPENCER AUCTION SUPPLIES

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Singing teacher, Eileen Turner, 439-4661

Quaker worship, Sundays, 11 a.m. Soroptimist Room, YWCA, 100 Ave. 103 St.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Word Processing, reasonable rates, near Bonnie Doon. Call Hanna at 469-7214.

Y.K. Language Services. General, semi-scientific and medical translating and interpreting. Reasonable rates. 435-0252.

Alcoholics Anonymous meets on campus. For information, call 482-6783, 10 a.m. to 4 p.m.

Canadian Institute of International Affairs, Canadian Professors for Peace in the Middle East presents Professor David Dewitt, Monday, 18 February, 8 p.m., Room 5-04 Business Building.

Interested staff, students welcome.

Experienced professional typist. Work proofread. Joan, 468-1275 after 4:45 p.m.

Ecole Grandin offers Catholic education and strong French immersion program with academic emphasis, in downtown area. Also: Pre- and after-school care, French immersion pre-kindergarten. Close to University. 482-3676.

Colour Charm - Enhance yourself with colour.

Learn the colours, makeup that best suit you for your season. Contact Pamela Trosko, Colour Consultant, 438-8078.

Competent house cleaning service, licenced and insured. For information, phone 424-8490.

JL Citation Services. Computerized literature searching by experienced scientists. Full searches, automatic updating. Search strategies carefully formulated. Max. 50 descriptors per topic. Call 487-8652.

Catherine M. Fletcher, B.A.(Hon.), M.Sc., D.D.S.
Dentist

Catherine M. Fletcher Professional Corporation
330 Garneau Professional Centre
11044 82 Avenue
Edmonton, Alberta T6G 0T2

Office Hours:

MWF 8-4

TTh 10-6

Telephone (403) 439-2266



BIG BAND DANCE

with the 14 pc.

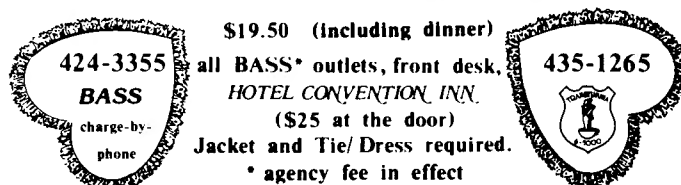
Transylvania 6-5000®

(interlude by Three's Co.)

THURSDAY, FEB. 14, 1985

in the

HOTEL CONVENTION INN



Step Up To A Higher Interest Rate



Consolidate your RRSPs by transferring to a **Teachers' RSP** between Jan. 1 and Mar. 31, 1985 and earn a premium rate of interest. The larger your investment, the higher your interest rate.

\$10,000 – \$50,000 Earn ¼% more*
\$50,000 plus Earn ½% more*

* than our current rates. Call today!
Collect calls are accepted.

These percentages are in effect for new investments transferred from another RRSP to our 90-day, 180-day, or 1-year locked-in RRSP Terms. (New investments are funds not previously invested in a Teachers' RSP.) Upon maturity, terms will be renewed at the rate in effect at that time.

For more information and a transfer form, just give us a call. (To qualify for the premium rate, we must receive your completed transfer form before March 31, 1985.)

Step Up To A Teachers' RSP Today!

Telephone: 453-3902

#401-11010 142nd Street, Edmonton, Alta. T5N 2R1

TEACHERS' INVESTMENT AND HOUSING CO-OPERATIVE